

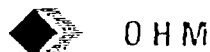


SDMS DocID

274513

4-6-18-C

O.H. Materials Corp.
1090 Canclare Drive
Westport Commercial Park
Port Allen, LA 70767
504-389-9596



August 4, 1988

Mr. Douglas Allen
E. C. Jordan Company
P.O. Box 7050
Portland, ME 04112

Dear Doug:

RE: Dewatering Study of PCB Contaminated Bottom Sediment -
New Bedford Harbor

We recently completed a dewatering study of the New Bedford Harbor sediment. The sample received was analyzed and tested to determine the dewaterability of the sludge. We were very successful in our efforts.

It is estimated we can process 150 cubic yards of sludge per filter press per day, utilizing the largest mobile presses in our fleet. It has been determined we can expect a 50 percent volume reduction from the process. The sludge was concentrated from a solids content of 38 percent to a filter cake with a solids content of 62 percent. The compression strength of the filter cake was measured at 1.25 tons per square foot. This cake will transport and landfill with no problems anticipated.

Based on 600,000 cubic yards of sludge in place, I have estimated that dewatering will cost approximately \$45.00 per cubic yard of sediment, producing 392,357 tons or 302,755 cubic yards of filter cake. This price will vary depending on the quantity of sludge available for processing and the daily flow expected.

The cost projected here assumes the use of existing mobile equipment. Due to the magnitude of the project, I would anticipate designing and employing much larger fixed base equipment which should substantially reduce the cost of the project. Should the project enter a phase requiring greater detail of scoping and fine tuning of costs—e.g., a formal request for quotation—the project will be repriced. Therefore, please accept the cost presented above as an estimate only.

Mr. Douglas Allen

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August 4, 1988

As agreed, the leftover sludge, filtrates, and other lab residue have been forwarded to our lab in Findlay, Ohio, for proper disposal.

Please contact me if I can be of assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "C. E. Bearden".

C. E. Bearden

CEB:ss

Attachment

O.H. MATERIALS CORP.
ANALYTICAL LABORATORY RESULTS

COMPANY NAME: USEPA - REGION I
E. C. JORDAN COMPANY
LOCATION: NEW BEDFORD HARBOR CITY: NEW BEDFORD STATE: MA
LABORATORY NO.: 071888-1
SAMPLE TAKEN BY: ARMY CORPS OF ENGINEERS

LARGE PRESS

VOLUME REDUCTION	50%
Sludge lb/cu ft	77
Cake lb/cu ft	96
Average gpm flow	21
Cycle time (minutes)	57
Influent gal/cycle	1,201
Effluent gal/cycle	557
Cycles/day	25
Cycles/job	100,918
Cu yd/cycle (cake)	3
Lb/cycle	7,776
Lb/cu yd	2,592
Influent gallons/day	30,340
Wet cu yd/day	150
Processed cu yd/day	76
Processed tons/day	98
Produced cu yds/job	302,755
Produced tons/job	392,357
Days/job (press days)	3,994

RESULTS BASED ON 600,000 CUBIC YARDS AND USE OF ONE LARGE PRESS.
MANY LARGE PRESSES CAN BE EMPLOYED AT ONCE.

	<u>WT% SOLIDS</u> <u>OVEN</u>	<u>WT% SOLIDS</u> <u>(SOLV. WASH)</u>	<u>WT% OIL</u> <u>(SOLV. WASH)</u>
SLUDGE	38%	0%	0%
CAKE	62%	0%	0%

SLUDGE CHARACTERISTICS AND TREATMENT: ORGANIC SEDIMENT WITH SILTY CLAYS CONTAMINATED WITH PCBs. SLUDGE CAN BE RUN AT HIGH OR LOW PRESSURE. DILUTION REQUIRED: 1 PART WATER TO 3 PART(S) SLUDGE.

#/GALLON

.05

ADDITIVE

LIME

EFFLUENT QUALITY: OK; CAKE = 1.25 T/SQ FT

MASS BALANCE: DRY TONS SLUDGE IN = 238,277.9
PLUS DRY TONS ADDED 3,030.0
TOTAL DRY TONS IN = 241,307.9
TOTAL DRY TONS OUT = 243,261.8